SECTION 10

WIDE VIEW FRONT MONITOR SYSTEM

Wide view front monitor system

Wide view front monitor system —

The wide view front monitor uses a super–wide angle lens to display on screen the areas to the left and right of the vehicle and the blind spots to the front of the vehicle. This system helps the driver check for approaching cars, bicycles and pedestrians when at intersections with poor visibility.

CAUTION

- **Always make sure to check all around the vehicle with your own eyes when driving.**
- **Due to the property of the front camera lens, the position of and distance to people or objects displayed differs from actual position and distance.**
- **Never depend on the front monitor only. Use caution just as you would when driving any other vehicle.**
- **Never drive while looking only at the screen as the image on the screen is different from actual conditions. If you drive while looking only at the screen, you may hit a person or an object, resulting in an accident. When driving, be sure to check the vehicle's surroundings with your own eyes and the vehicle's mirrors.**
- **When the outside temperature is low, the displayed image may become faint or dark. Moving images will be distorted or not entirely visible, so be sure to check the vehicle's surroundings with your own eyes and the vehicle's mirrors while driving.**
- **The displayed image may be darker and moving images may be slightly distorted when the system is cold.**
- **Do not use the front monitor in the following cases:**
  - **On icy or slick road surfaces,or in snow**
  - **When using tire chains or emergency tires**
  - **When the hood or the front passenger door is not completely closed**
  - **On roads that are not flat or direct, such as slopes or curves**

NOTICE

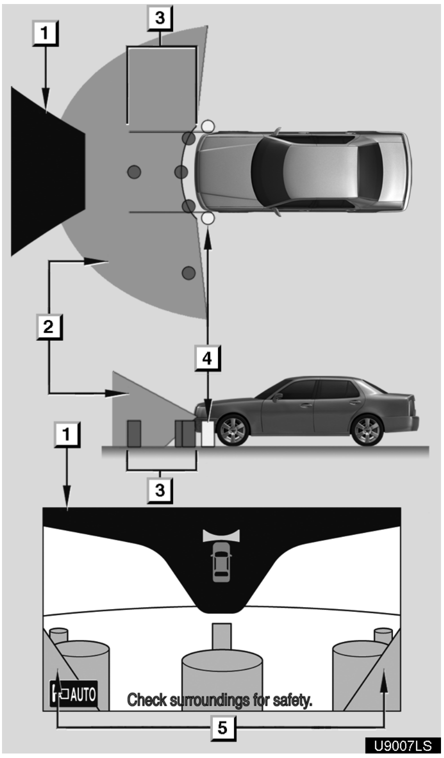
- *If the front of the vehicle is hit, the camera's position and mounting angle may change. Contact your Lexus dealer.*
- *Rapid temperature changes, such as when hot water is poured on the vehicle in cold weather, may cause the system to function abnormally.*
- *When replacing the tires, please consult your Lexus dealer. If you replace the tires, the area displayed on the screen may change.*
- *If the camera lens is dirty, it cannot transmit a clear image. Rinse with water and wipe with a soft cloth. If extremely dirty, wash with a mild cleanser and rinse.*

INFORMATION

- *The area displayed on the screen may vary according to vehicle status or road conditions.*
- *Due to the property of the front camera lens, the perceived distance from images that appear on the screen differs from the actual distance.*
- *In the following cases, it may become difficult to see the images on the screen, but this is not a malfunction:*
  - *In the dark (for example, at night)*
  - *When the temperature near the lens is high or low*
  - *When there are water droplets on the camera lens, or when humidity is high (for example, when it rains)*
  - *When foreign matter such as mud is stuck to the front camera*
  - *When the sun or the beam of headlights is shining directly into the camera lens*
- *The following symptoms may occur, but do not indicate a malfunction:*
  - *The camera may fog up when humidity is high (for example, when it rains).*
  - *When driving at night, ambient lights such as the lights of the vehicles ahead and building lighting may be reflected into the image.*
- *The center or four corners of the image may decrease in definition.*
- *As the procedure is the same, follow the instructions for navigation screen adjustment to adjust the wide view front monitor. (See page 36.)*

— Area displayed on the screen

<Area of the image captured by the front camera>



1 **Masking**

This section is masked to prevent the driver from moving the vehicle while only watching the wide view front monitor screen. The driver must visually confirm this area directly.

2 **Camera's field of view**

3 **Objects visible to the camera**

4 **Objects not visible to the camera**

5 **Parts of the vehicle (bumper, grille, etc.)**

The area displayed on the screen may vary according to vehicle orientation or road conditions.

- **The wide view front monitor system camera**



The wide view front monitor system camera is located on the front grille as shown in the illustration.

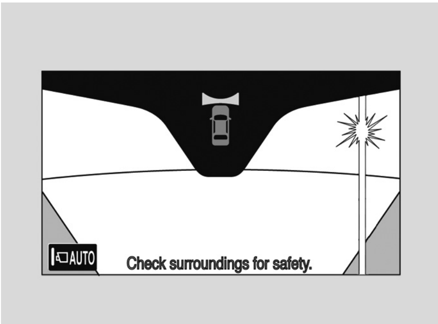
NOTICE

Observe the following precautions to ensure that the wide view front monitor functions properly:

- ***Do not hit the camera or subject it to strong impacts as this may cause its position and mounting angle to change.***
- ***As the camera is water proof, do not detach, disassemble or modify it. Doing so may cause incorrect operation.***
- ***Do not scrub the camera lens roughly or clean it with a hard brush or abrasive cleaner. Doing so may damage the lens and adversely affect the image.***
- ***As the camera cover is resin, do not allow organic solvent, car wax, window cleaner or glass coating agent to adhere to it. If this happens, wipe clean as soon as possible.***
- ***Do not expose the front camera to sudden temperature changes such as by pouring hot water on the vehicle in cold weather.***
- ***If the front camera is hit, its position and mounting angle may change. Be sure to have the front camera checked by your Lexus dealer.***
- ***Be careful when driving on rough roads as the surface of the camera may be damaged by flying stones or other debris.***

INFORMATION

If the camera lens becomes dirty, it cannot transmit a clear image. If water droplets, snow, or mud adhere to the lens, rinse with water and wipe with a soft cloth. If the lens is extremely dirty, wash it with a mild cleanser and rinse.

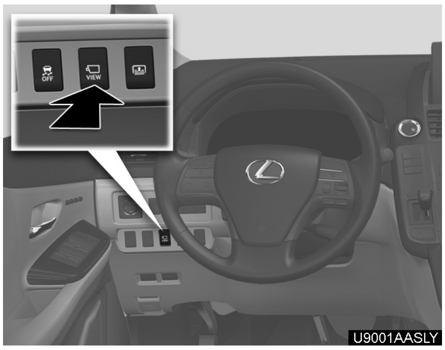


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If a bright light (for example, sunlight reflected off the vehicle body) is picked up by the front camera, the smear effect* peculiar to the camera may occur.

*: Smear effect is a phenomenon that occurs when a bright light (for example, sunlight reflected off the vehicle body) is picked up by the camera; when transmitted by the camera, the light source appears to have a vertical streak above and below it.

— Activating the wide view front monitor



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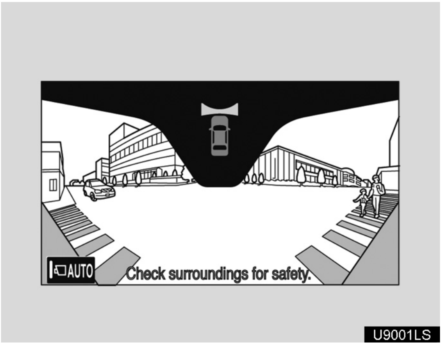
To display the front view, push the “VIEW” button with the “POWER” switch in ON mode and vehicle speed at 7 mph (12 km/h) or less.

- **Cancelation of the wide view front monitor**

In the following situations, the front monitor will be canceled:

- When the shift position is shifted to “R” or “P”.
- Any of the mode buttons around the display, such as **“MENU”** button on the Remote Touch is pushed.
- When the “VIEW” button is pushed
- When vehicle speed exceeds approximately 7 mph (12 km/h)

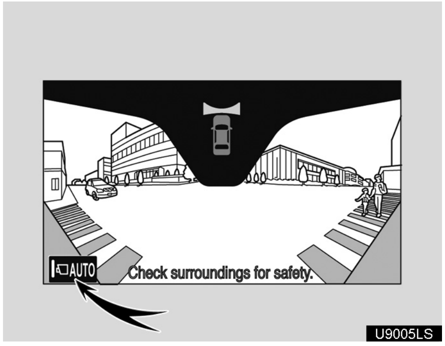
— Wide view front monitor



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The image from the front camera is displayed. Use this monitor to help check the area in front of the vehicle for safety, for example in intersections with poor visibility.

- **Button on the screen**



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Automatic display button

Selecting this button puts the wide view front monitor in automatic display mode.

- Select this button to turn automatic display mode on/off.
- The indicator on the button illuminates during automatic display mode.

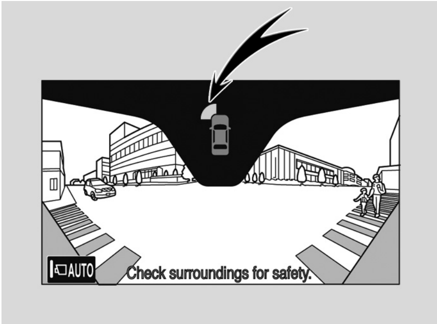
(a) Automatic display mode

In addition to being able to display the front view using the "VIEW" button, automatic display mode is available. In automatic display mode, the wide view front monitor is activated automatically according to vehicle speed.

In automatic mode, the wide view front monitor will automatically appear in the following situations:

- When the shift position is shifted to a forward driving position or "N"
- When vehicle speed is reduced to approximately 6 mph (10 km/h) or less with the shift position in any position other than "R"

— When switched to from the Intuitive parking assist



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If the wide view front monitor is switched to from the intuitive parking assist, the icon display area will flash to inform the driver that the currently displayed area is the front. The icon display area will continue to flash until the screen is turned off.